eMac in Education

Designed for education, Apple's most affordable desktop computer now features increased processing power, a faster CD- and DVD-burning SuperDrive, and Apple's innovative iLife applications. All this in an amazingly compact all-in-one system—eMac has everything you need for a computer lab or teacher's desk.

Key Features

Display brilliant images. The 17-inch (16-inch viewable) flat CRT display provides 40 percent more screen viewing area than a 15-inch CRT display, with photorealistic colors and crisp, clear images.

Power the digital classroom. The 1GHz PowerPC G4 processor with Velocity Engine delivers accelerated performance, making the most of all your applications. It even encodes DVDs in real time.

Create, burn, and play DVDs. The revolutionary 4x-speed SuperDrive makes it easy to burn CDs and DVDs, and now you can burn professional-looking DVDs twice as fast.[1]

Display vivid graphics anywhere. The ATI Radeon 7500 graphics processor with 32MB of dedicated graphics memory delivers over 1 billion pixels per second for rich 2D and 3D graphics. And now you can connect to almost any type of display device via built-in VGA, composite, or S-video display capabilities.[2]

Connect in seconds. Using FireWire and USB, eMac automatically recognizes most printers, cameras, digital music players, and other peripherals. With Ethernet and modem built in, connecting to the Internet is a snap.

Get unwired. With AirPort Extreme, you can connect wirelessly to the Internet from anywhere in your classroom, network all of your campus Mac and Windows computers, and even share a USB printer.[3]

Technical Specifications

Processor and memory

- 800MHz or 1GHz PowerPC G4 processor with Velocity Engine
- 256K on-chip level 2 cache at full processor speed
- 133MHz system bus
- 128MB or 256MB of PC133 SDRAM, expandable to up to 1GB; two user-accessible 168-pin DIMM slots support up to 1GB using 128MB, 256MB, or 512MB DIMMs

Storage

- 40GB, 60GB, or 80GB Ultra ATA hard disk drive[4]
- One of the following optical drives:
  - CD-ROM drive; reads CDs at up to 32x speed
  - Combo drive (DVD-ROM/CD-RW); reads DVDs at up to 8x speed, writes CD-R discs at up to 32x speed, writes CD-RW discs at up to 10x speed, reads CDs at up to 32x speed
  - SuperDrive (DVD-R/CD-RW); writes DVD-R discs at up to 4x speed, reads DVDs at up to 8x speed, writes CD-R discs at up to 16x speed, writes CD-RW discs at up to 8x speed, reads CDs at up to 32x speed

Display

- Built-in 17-inch flat CRT (16-inch diagonal viewable image size); 0.25-mm dot pitch

Graphics support

- ATI Radeon 7500 graphics processor with AGP 4X support
- 32MB of dedicated Double Data Rate (DDR) SDRAM video memory
- Five screen resolutions: 640 by 480 pixels, 800 by 600 pixels, 1024 by 768 pixels, 1152 by 864 pixels, and 1280 by 960 pixels

Communications

- Built-in 56K V.92 modem (RJ-11 connector)[5]
- Built-in 10/100BASE-T Ethernet (RJ-45 connector)
- Built-in antennas and expansion slot for optional 54-Mbps AirPort Extreme Card[3]

Peripheral connections

- Two FireWire 400 ports; 8 watts shared
- Total of five USB 1.1 ports: three on computer (shared on two 12-Mbps controllers), two on keyboard

Audio

- Integrated high-performance stereo audio system
- Internal 16-watt digital amplifier
- Headphone jack (headphones not included)
- Audio line in jack
- Built-in microphone

Video

- VGA output port (requires Apple VGA Display Adapter, sold separately)
- VGA output resolutions: 640 by 480 pixels at 60Hz, 67Hz, 72Hz, 75Hz, 85Hz, 90Hz, 100Hz, and 120Hz; 800 by 600 pixels at 56Hz, 60Hz, 72Hz, 75Hz, 85Hz, 90Hz, 100Hz, and 120Hz; 1024 by 768 pixels at 60Hz, 70Hz, 75Hz, 85Hz, 90Hz, and 100Hz; 1152 by 870 pixels at 75Hz; 1280 by 960 pixels at 75Hz
- S-video and composite video output to connect directly to a TV or projector (requires Apple Video Adapter, sold separately)
- Support for video mirroring: external devices display an image identical to that shown on the built-in display

Electrical and environmental requirements

- Meets ENERGY STAR and TCO 95 requirements
- Line voltage: 100V AC or 220V AC, depending on country of use
- Frequency: 47Hz to 63Hz, single phase
- Maximum continuous power: 170W
- Operating temperature: 50° to 95° F (10° to 35° C)
- Storage temperature: –40° to 116° F (–40° to 47° C)
- Relative humidity: 5% to 95% noncondensing
- Maximum altitude: 10,000 feet

Size and weight

- Height: 15.8 inches (40.6 cm)
- Width: 15.8 inches (40.6 cm)
- Depth: 17.1 inches (43.3 cm)
- Weight: 50 pounds (22.7 kg)[6]

Configurations

Order number	M8949LL/A	M8950LL/A	M8951LL/A
Processor	800MHz PowerPC G4	1GHz PowerPC G4	1GHz PowerPC G4
System bus	133MHz	133MHz	133MHz
Memory	128MB of PC133 SDRAM; supports up to 1GB	128MB of PC133 SDRAM; supports up to 1GB	256MB of PC133 SDRAM; supports up to 1GB
Hard drive[4]	40GB Ultra ATA	60GB Ultra ATA	80GB Ultra ATA
Optical drive	CD-ROM	Combo (DVD-ROM/CD-RW)	SuperDrive (DVD-R/CD-RW)
Display	17-inch (16-inch viewable) flat CRT	17-inch (16-inch viewable) flat CRT	17-inch (16-inch viewable) flat CRT
Graphics support	ATI Radeon 7500 with 32MB of dedicated DDR SDRAM	ATI Radeon 7500 with 32MB of dedicated DDR SDRAM	ATI Radeon 7500 with 32MB of dedicated DDR SDRAM
FireWire 400	Two ports	Two ports	Two ports
USB	Five ports	Five ports	Five ports
Ethernet	10/100BASE-T	10/100BASE-T	10/100BASE-T
Modem[5]	None	56K V.92	56K V.92
Wireless networking[3]	AirPort Extreme ready	AirPort Extreme ready	AirPort Extreme ready
Speakers	Integrated stereo speakers	Integrated stereo speakers	Integrated stereo speakers
Software	Mac OS X, Mac OS 9,[7] QuickTime, iCal, iChat, iLife (includes iTunes, iPhoto, iMovie, and iDVD[8]), iSync, DVD Player, AppleWorks, Mac OS X Mail, Microsoft Internet Explorer, EarthLink (includes 30 days of free service), AOL, Quicken 2003 Deluxe, World Book 2003 Edition, Mac OS X Chess, Otto Matic, Deimos Rising, Sound Studio, FAXstf, and Acrobat Reader; Apple Hardware Test CD		
Service and support	90 days of free telephone support and one-year limited warranty		
Also included	Apple Keyboard, Apple Mouse, modem cable		

Build-to-Order Options

In addition to choosing from Apple's preconfigured systems, you can order an eMac with factory-installed options such as additional RAM and AirPort Extreme wireless networking from the Apple Store for Education or an Apple Authorized Reseller.

Other Products

- eMac Tilt and Swivel Stand, M8784G/A
- AirPort Extreme Card, M8881LL/A
- AirPort Extreme Base Station, M8930LL/A
- AirPort Extreme Base Station with modem and antenna port, M8799LL/A
- Apple Video Adapter, M9109G/A
- Apple VGA Display Adapter, M8639G/A
- Apple FireWire Cable (4-pin to 6-pin), M8706G/A
- Apple 4x DVD-R Media Kit, M8985G/A
- D-Link USB Bluetooth Adapter, T6295ZM/A
- .Mac, M8778LL/A
- AppleCare Protection Plan, M8851LL/A

Extended Service and Support

Purchase the AppleCare Protection Plan to extend your service and support to up to three full years. The plan provides support for your Mac, the Mac OS, and many Apple consumer applications, so just one phone call can help resolve most issues. For more information, visit www.apple.com/support/products or call 800-823-2775.

For More Information

For more information about this and other Apple education products, visit www.apple.com/education or call 800-800-2775. To purchase products from the Apple Store for Education, go to www.apple.com/education/store.

Visit the Macintosh Products Guide at www.apple.com/guide for the latest information on thousands of hardware and software products for your Mac.

Internet access requires a compatible Internet service provider; fees may apply. Product contains electronic documentation. Backup copy of software is included. [1]SuperDrive available in selected models. [2]Requires Apple Video Adapter or Apple VGA Display Adapter. [3]Wireless Internet access requires AirPort Extreme Card, AirPort Base Station or AirPort Extreme Base Station, and Internet access (fees may apply). Some ISPs are not currently compatible with AirPort and AirPort Extreme. Range may vary with site conditions. Achieving data rates up to 54 Mbps requires that all users have an AirPort Extreme Card and connect to an AirPort Extreme Base Station. AirPort Extreme works only in Mac OS X. Wireless printing over USB requires Mac OS X v10.2.3 or later and a compatible printer. [4]1GB = 1 billion bytes; actual formatted capacity less. [5]Compatible ISP and telephone services required. Your ISP may not support all V.92 features. Modem will function according to V.90 standards if V.92 services are not available. Actual modem speeds lower; speed depends on connection rate and other factors. Some configurations do not include a built-in modem. [6]Weight varies by configuration and manufacturing process. [7]Startup in Mac OS 9 is available only with CD-ROM and Combo drive configurations. All configurations can run Mac OS 9 applications in Mac OS X Classic mode. [8]iDVD requires an Apple SuperDrive.

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